

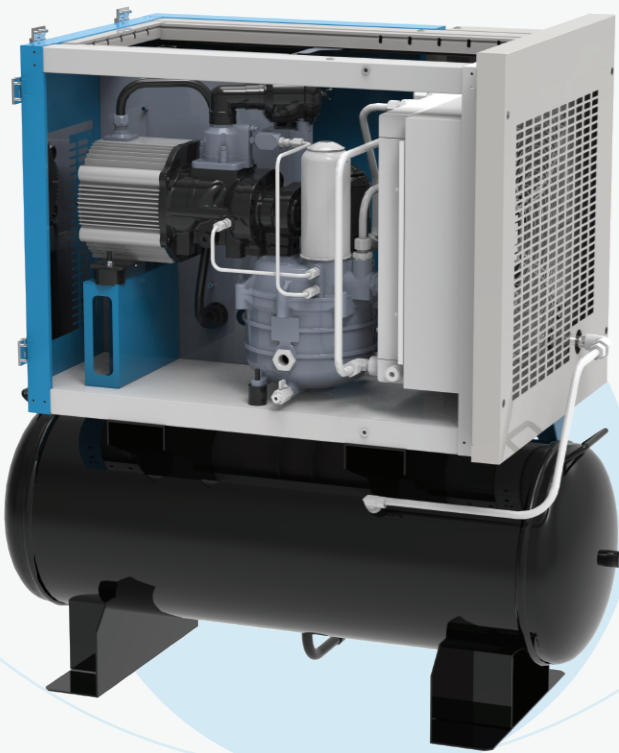
# Neo Series

Rotary Screw Compressors

5HP | 7.5HP | 10HP



EL-AV Compressors USA Corp.



## Features

### Direct driven

One shaft direct drive with no gear or coupling results in zero energy waste on power transmission

### Galvanized Steel tubing

Durable & reliable solution to eliminate possibilities for leakage downtime

### Variable speed drive

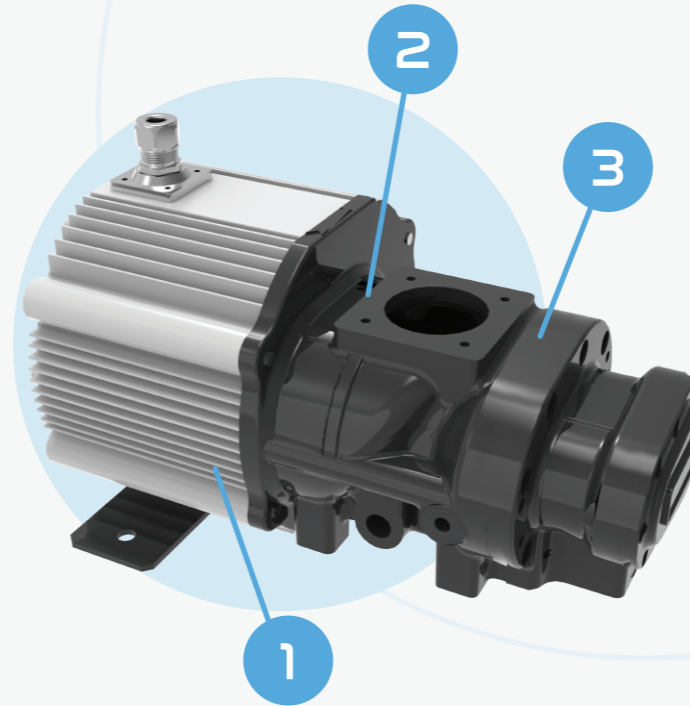
Wide rpm range fits the compressed air flow to the actual air demand

### Efficient cooling system

Efficient, heavy-duty oil & air cooling system promise that the compressor capable of working at the toughest conditions.

### IP67 Permanent magnet motor

High efficiency and extremely low noise level



### 1 Permanent magnet motor

- IP67 – extremely durable and quiet
- IE4+ efficiency rate
- Wide rpm range (25%-100%)
- Smaller footprint

### 2 Direct driven unit

One shaft direct drive without gear or coupling results in zero energy waste on power transmission

### 3 Screw air end

- Unique high efficiency rotor profile
- Reinforced 6 bearings as standard
- Design for heavy duty usage
- Stainless steel rotors

Neo series – a small innovative solution

## Pros

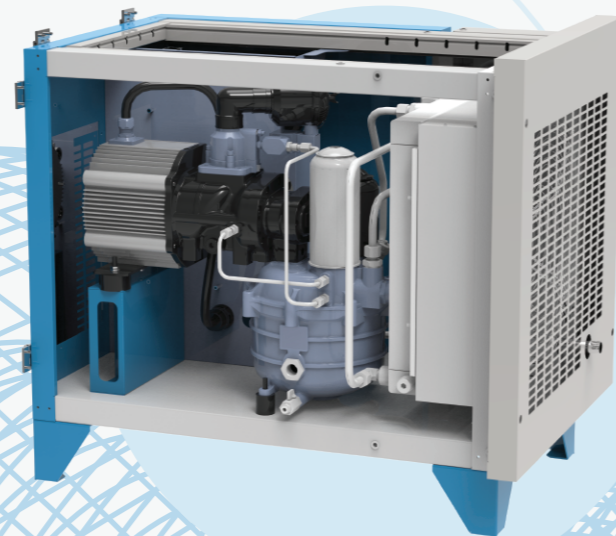
Super silent and compact design

Smart engineering for easy and fast maintenance

System built for continuous work with active cooling system

Highest efficiency solution for 5hp up to 10hp

Durable and built for heavy duty usage

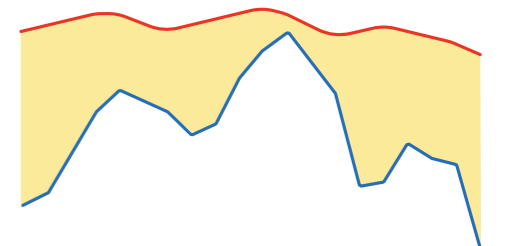


## Energy savings with Neo series

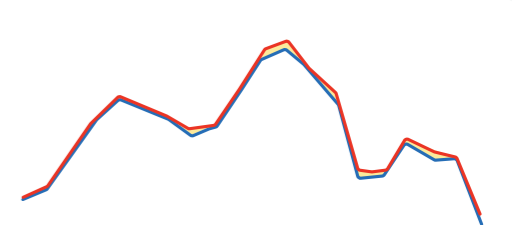
Neo series comes with IE4+ efficiency motor and variable speed control.

The combination of PM motor and variable speed drive results in drastic energy saving over any other solution while staying durable and suitable for 24/7 working at heavy duty applications.

### Fixed speed scheme



### VSD working scheme



— Energy Consumption — Air demand  
— Wasted energy



| Model   | Working Pressure |        | Capacity FAD |      |       |     |     |      | Electric motor |     |                         | Noise level | Electricity          | Air outlet |
|---------|------------------|--------|--------------|------|-------|-----|-----|------|----------------|-----|-------------------------|-------------|----------------------|------------|
|         | bar(g)           | psi(g) | m3/min       |      | l/min |     | cfm |      | Hp             | Kw  | RPM (MAX)               | dB(A)       | Voltage              | inch       |
|         |                  |        | min          | max  | min   | max | min | max  |                |     |                         |             |                      |            |
| NEO5    | 8                | 116    | 0.08         | 0.42 | 84    | 420 | 3   | 14.8 | 5              | 3.7 | 2400                    | 69          | 200-240<br>(3 Phase) | G 1/2"     |
|         | 10               | 145    | 0.08         | 0.39 | 78    | 390 | 2.8 | 13.8 |                |     |                         |             |                      |            |
|         | 12.5             | 181    | 0.07         | 0.36 | 72    | 360 | 2.5 | 12.7 |                |     |                         |             |                      |            |
| NEO5SP  | 8                | 116    | 0.09         | 0.43 | 86    | 430 | 3   | 15.2 | 5              | 3.7 | 2400                    | 69          | 200-240<br>(1 Phase) | G 1/2"     |
|         | 10               | 145    | 0.08         | 0.39 | 78    | 390 | 2.8 | 13.8 |                |     |                         |             |                      |            |
|         | 12.5             | 181    | 0.07         | 0.37 | 74    | 370 | 2.6 | 13.1 |                |     |                         |             |                      |            |
| NEO7    | 8                | 116    | 0.11         | 0.56 | 112   | 560 | 4   | 19.8 | 7.5            | 5.5 | 3300                    | 71          | 200-240<br>(3 Phase) | G 1/2"     |
|         | 10               | 145    | 0.10         | 0.52 | 104   | 520 | 3.7 | 18.4 |                |     |                         |             |                      |            |
|         | 12.5             | 181    | 0.10         | 0.49 | 98    | 490 | 3.5 | 17.3 |                |     |                         |             |                      |            |
| NEO7SP  | 8                | 116    | 0.11         | 0.56 | 112   | 560 | 4.0 | 19.8 | 7.5            | 5.5 | 3300                    | 71          | 200-240<br>(1 Phase) | G 1/2"     |
|         | 10               | 145    | 0.10         | 0.52 | 104   | 520 | 3.7 | 18.4 |                |     |                         |             |                      |            |
|         | 12.5             | 181    | 0.10         | 0.49 | 98    | 490 | 3.5 | 17.3 |                |     |                         |             |                      |            |
| NEO10   | 8                | 116    | 0.19         | 0.97 | 194   | 970 | 6.9 | 34.3 | 10             | 7.5 | 4200(8-10)/<br>3600(12) | 75          | 200-240<br>(3 Phase) | G 1/2"     |
|         | 10               | 145    | 0.18         | 0.91 | 182   | 910 | 6.4 | 32.1 |                |     |                         |             |                      |            |
|         | 12.5             | 181    | 0.16         | 0.80 | 160   | 800 | 5.7 | 28.3 |                |     |                         |             |                      |            |
| NEO10SP | 8                | 116    | 0.19         | 0.97 | 194   | 970 | 6.9 | 34.3 | 10             | 7.5 | 4200(8-10)/<br>3600(12) | 75          | 200-240<br>(1 Phase) | G 1/2"     |
|         | 10               | 145    | 0.18         | 0.91 | 182   | 910 | 6.4 | 32.1 |                |     |                         |             |                      |            |
|         | 12.5             | 181    | 0.16         | 0.80 | 169   | 800 | 5.7 | 28.3 |                |     |                         |             |                      |            |



| Size chart |                    |             |             |     |
|------------|--------------------|-------------|-------------|-----|
| MODEL      | Dimensions (L×W×H) |             | Weight (kg) |     |
|            | in                 | mm          | lbs         | kgs |
| NANO5      | 34×22×29           | 855×570×725 | 231         | 105 |
| NANO5SP    |                    |             |             |     |
| NANO7      |                    |             |             |     |
| NANO7SP    |                    |             | 243         | 110 |
| NANO10     |                    |             |             |     |
| NANO10SP   |                    |             |             |     |



www.el-av.com  
Marketing@el-av.com  
EL-AV Compressors USA Corp.



UL Certification pending  
manufactured with UL  
certified components